

Yasser Omar
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Education

- Ph.D. in Biomedical Engineering & Systems. University of Cairo, Egypt (2006).
 - Ph.D. Thesis Title: Analysis of Colored Retinal Images for Retinal Diseases Diagnosis
- M.Sc. in Computer Engineering MTC, Ain Shams University, Egypt (2001).
 - Master’s Thesis Title: Analysis of Medical Images for Diseases Diagnosis
- B.Sc. in Computer Engineering, MTC Ain Shams University, Egypt (1996).
- Certificate in Data Science and Big Data Analytics Dell- EMC (2018).
- Certificate in Big Data Developer Mastery Award IBM, (2016).
- Certified Secure Computer User (CSCU)- EC-Council (2015).
- Certificate in Business Intelligence Specialist with Cognos (2015).
- Certificate in MCP in SQL Server (2005).
- Training Program for Biological Detection and Identification held in Canada (2003.)
- Certificate in 2002 Training Program for Service of Whole Body X-ray CT Scanner held in Japan.

Academic appointments and other significant work experience

- Lecture in School of Library and Information Studies Oklahoma University. 2022- till now
- Post-Doc in Social Robotics INSA-Lab Rouen France Feb. 2020-2021.
- Adjunct Instructor (Online) in SMU, Texas USA Master Program Data Storage and File Organization Summer 2020(2 Classes).
- Visitor Professor in TSI, Riga Latvia for both Fall, Spring 2020 (Modren DB & Cloud Computing).
- TSYS School of Computer Science, Columbus State University, USA
 Visiting Professor, Jan. 2019-May 2019
- Arab Academy for Science, Technology and Maritime Transport AASTMT, CCIT
 Associate Professor, Sep. 2017- 2022.
 Head of all Educational Departments, Sep 2016- present.
 Vice Dean for Training & Service Community, Mar. 2015-Aug 2016.
 Assistant Professor, Sep. 2014-Aug 2017.
- Giza Engineering Higher Institute
 Assistant Professor, Sep. 2012-Aug 2014.
- Medical Service, Egyptian Armed Forces, Center of Excellence, IT Department(Working as Java developer and Oracle Admin, PHP, Web Developer) June 1996 – Sep. 2012.

Quality Experience and ABET Accreditation

Prepare the SSR report for both Computer Science Program and Information System Program for ABET accreditation as a Head of both departments in College of Computing and Information Technology, AASTMT Cairo Branch Where the committee of ABET Site Visit on October 2018 recommended to accredit both programs(expected finally accredited at June 2019) .

Quality Experience in Security Diploma Development

Prepare the curriculum for professional diploma for 1 year and half between AASTMT and EC-Council including 4 professional certificate from EC-Council including CEH, CHFI, ECSA, CSCU.

Current fields of interest

- Computer Science: Machine Learning, Deep Learning, Big Data Analytic, Data Science, Natural Language Processing, Computer Vision, Bioinformatics and Computer Aided Diagnostic Systems.
- Computer science education: Faculty development workshops and communities; undergraduate and graduate research.
- Medical Image processing (fMRI, neuro Image)

Teaching experience

Fall 2012-present: 79 courses; 57 regular courses (post graduate, under graduate), 2 co-teaching courses, 3 professional training courses, 17 research and thesis courses resulted in 13 published theses, most significantly:

- Adjunct Instructor (Online) in SMU, Texas USA Master Program Data Storage and File Organization Summer 2020 (2 Classes).
- Visitor Professor in TSI, Riga Latvia for both Fall, Spring 2020 (Modern DB & Cloud Computing).
- Big Data and Data Analytics [2 sections, 50 student enrolled]: Undergraduate-level course on using the Java programming language to implement different data structures.
- Object Oriented Programming (**Using Java**) (CS243) [4 sections 104 student enrolled] Undergraduate-level course on the concepts abstraction, encapsulation, inheritance and polymorphism.
- Computer System Security (CS421) [3 sections 73 students] Concentrated on security mechanisms for secrecy, integrity, and availability. Topics include basic cryptography and its applications, security in computer networks and distributed systems and control and prevention of viruses and other rogue programs.
- Data Security (CS716) [1 Section 20 Student enrolled]: Post-graduate Topics include basic cryptography and its applications, security in computer networks and distributed systems and control and prevention of viruses and other rogue programs, concepts and mechanisms for database security.
- Cloud Computing (CS428) [5 sections 126 student enrolled] Undergraduate-level course on the cloud infrastructure. This course follows an open approach to describe concepts and technologies.
- Software Agents (CS461) [1 section 24 student enrolled] Undergraduate-level course on analysis and design of intelligent agents.
- Database Systems (IS273) [5 sections 220 student enrolled] Undergraduate-level course on analysis, design, and normalization of relational databases.
- Web Programming (CS333) [3 sections 75 student enrolled] Undergraduate-level course on web-design PHP, HTML, CSS, JavaScript, Apache Server.
- Data mining (IS465) [1 section 24 student enrolled] Undergraduate-level course concerned with developing techniques to assist managers to make intelligent use of these repositories.
- Algorithmic Graph Theory (CS712) [1 section 24 student enrolled] Postgraduate-level course on introduces concepts of pure and applied graph theory with emphasis on algorithms and their complexity.
- Advanced Database (IS702) [1 section 24 student enrolled] Postgraduate-level course on introduces the current database research topics, and current advances in database technology.

SYSTEM DEVELOPMENT:

- 1996: Building software package for simulating shooting system using laser beam the research has been funded by National Optic Factory with 1500000 EP.
- 1999: Building software package for hearing audiometer system that used for mass scanning testing.
- 2010: LiverTrans, “3D workstation for preoperative planning in liver transplantation”.
- 2013: Building software that manages Smart Electric Meters (MDM) ElSweedy Company.

Google Scholar Link:

<https://scholar.google.com/citations?user=VILtOusAAAAJ&hl=en>

Grants

- Co-PI with Rania Hodhod on a Grant Proposal submitted to NSF Titled Desire2Code: An automatic augmented reality tool for middle and high school computing education [**not funded**] (2018).
- Participate in Excellence in Nano science Education for the MENA Region, Arab Academy for Science and Technology & Maritime Transport. Amount €3,000,000 **awarded** (2015).

Honors, awards or recognitions

- Dell- EMC², Distinguished Award for Academic Alliance 2017.

Professional growth and development

- [19 professional development activities](#) were attended since 2012.
- 7 International Conference were attended since 2014.

Individual student research mentorship

Mentored 50+ undergraduate researchers and 12 graduate researchers since 2013.

Peer-reviewed publication since 2013

45 publications since 2015;

Computer Skills

- Proficiency in using Big data Tool like: Hadoop, Spark and Business Analytic like Cognus.
- Proficiency in Java and Object Orient Programming.
- Proficiency in using Matlab and R.
- Proficiency in Python, Tensor Flow, Sict Learn, and Keras.
- Mobile Applications and Android platform.
- Proficiency in Java, Prolog, C#, C++, Python, VTK, ITK, Database Oracle, SQL, and PL/SQL.
- Proficiency in using PHP, JavaScript, HTML5, and CSS Apache Server.